

PENNSYLVANIA

Pennsylvania has a rich history of pioneering sources of energy, from the world's first oil well to the first commercial nuclear power plant. The Keystone State has continued to be one of the country's most important energy producers providing the rest of the nation with coal, refined products and electricity. Today, shale formations located throughout much of the state are providing an opportunity to build on Pennsylvania's integral role as a leading energy producer.

For centuries, **Pennsylvania's natural resources have contained vast quantities of energy trapped in shale formations that could bring us closer to self-reliance** — but until recently we lacked the technology to produce it economically.

Now, thanks to the spirit of American innovation, a safe and environmentally sustainable way to utilize our shale resources has been developed. Hydraulic fracturing and horizontal drilling are being used to make **Pennsylvania a national leader in natural gas production from shale — a reality which is already changing the state's economy and energy future.**

BY 2020 SHALE ENERGY EXTRACTION IN PENNSYLVANIA IS EXPECTED TO SUPPORT:



JOBS
220,635



STATE & LOCAL GOVERNMENT REVENUE
\$2.4 Billion*



ECONOMIC GROWTH
\$26.7 Billion*



LABOR INCOME
\$14 Billion*

Based on analysis published by IHS in America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy, Volume II. This study quantifies economic benefits derived solely from extraction, or "upstream," activities. Subsequent analysis will include all activities including consumption or "downstream."

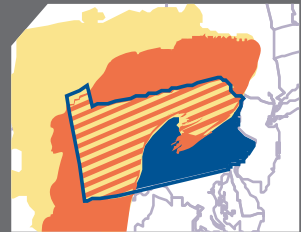
*annually

DID YOU KNOW?

SHALE ENERGY IN PENNSYLVANIA

Marcellus
Intermediate
depth/age

Utica
Deepest/
oldest



PRODUCTION IN PENNSYLVANIA

3.5 billion
Cubic Feet Per
Day in 2011



- ▲ Through 2012 shale energy development in Pennsylvania already supported **nearly 103,000 jobs** in industries related to extraction and generated **more than \$1.2 billion** in state and local government revenue.
- ▲ In 2012 alone shale energy development added **\$14.1 billion** to Pennsylvania's gross state product and **\$7.3 billion** of labor income in the state.
- ▲ The Pennsylvania Department of Labor and Industry reports that on average, jobs in shale-related production industries pay \$81,000 a year — between \$17,000-\$34,000 a year more than the state average for all industries.



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